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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/648,632	08/25/2003	Yonghua Song	MP0239	4348	
26200 7	7590 05/03/2005		EXAM	EXAMINER	
FISH & RICHARDSON P.C.			NGUYEN,	NGUYEN, KHANH V	
P.O BOX 1022 MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER	
	,		2817		
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DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

·			Me			
	Application No.	Applicant(s)				
	10/648,632	SONG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Khanh V. Nguyen	2817				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply	/ IC CET TO EVOIDE 2 N	AONTU(S) EDOM				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a within the statutory minimum of thi fill apply and will expire SIX (6) MOI cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	nication.			
Status						
1) Responsive to communication(s) filed on 24 Ja	nuary 2005.					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.					
3) Since this application is in condition for allowar	ice except for formal mat	ters, prosecution as to the me	rits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.[D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-10,12-15,17-43,45 and 46</u> is/are per	nding in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) 13,33 and 46 is/are allowed.						
6)⊠ Claim(s) <u>1-10,12,14,15,17-32,34-43 and 45</u> is/are rejected.						
·	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.	· .				
Application Papers		•				
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attache	d Office Action or form PTO-1	52.			
Priority under 35 U.S.C. § 119		·				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	-	(s)/Mail Date Informal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:		,			

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DETAILED ACTION

Claims 11, 16, 31, and 44 are canceled.

Response to Arguments

Applicant's arguments with respect to claims 1-10, 12, 14, 15, 17-32, 34-43, and 45 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 21-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear from the specification which so called "first circuit", "second circuit", and "third circuit" as claimed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 1-10, 12, 14, 15, 17-32, 34-43, 45 are rejected under 35 U.S.C. 102(e) as being anticipated by Yang (6,710,657).

Regarding claims 1, 2, 14, 17-22, 34, 35, Yang (Figs, 3, 4) discloses a gain control circuit comprising: a transconductance circuit (320/T1) can be read as a gain stage; elements connect to the collector of transistor (T1) can be read as a programmable resistance, wherein the programmable resistance including a plurality of switches (T3, T5) in parallel with a resistive element (Zo), and an output node at Vout and the switches (T3, T5) are capable of changing the gain at the output.

Regarding claims 3-5, 10, 15, 23-25, 30, 36-38, 43, wherein the switch operation and the gain characteristics recited is inherently seen in the operations of the reference circuit since all the essential elements of the claimed invention are disclosed in Yang.

Regarding claims 6-8, 26-28, 39-41 wherein transistors (T3, T5) are inherently seen having a resistance values.

Regarding claims 9, 29, 42, wherein Yang's circuit (Fig. 3) is differential and having two branches.

Regarding claims 12, 32, 45, wherein a control circuit (not shown) is connected to the control terminals of transistors (T3, T5) and the control circuit can be read as a third circuit.

Allowable Subject Matter

Claims 13, 33, 46 allowed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference (Jeong et al. (6,424,222)) shows variable gain amplifier having variable resistance.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KHANH VAN NGUYEN PRIMARY EXAMINER

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